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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,534	12/02/2004	Wolfgang Hahn	449122078200	4504

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EXAMINER

NGUYEN, SIMON

ART UNIT	PAPER NUMBER
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2618

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/516,534

Applicant(s)

HAHN ET AL.

Examiner

SIMON D. NGUYEN

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 December 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 1-26 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 December 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3, 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Dynarski et al. (6,466,571).

Regarding claims 1 and 23, Dynarski discloses a method for authenticating a subscriber for utilizing services in a wireless LAN while using an IP multimedia subsystem of a mobile radio network (abstract, fig.1, column 3 lines 50-62, column 5 lines 20-35), comprising: receiving an IP address from the wireless LAN (an IP address assigned, abstract), after which the subscriber receiving the IP address is authenticated to the IP multimedia subsystem (a network access server, IWU) while giving the IP address, by means of SIP registration (a table of mapping IP address stored in an authentication server); and informing an element of the wireless LAN (home agent) of the result of the authentication of the subscriber with regard to the IP multimedia system (abstract, column 2 lines 33-65, column 3 lines 4-47) .

Regarding claim 2. Dynarski further discloses wherein the subscriber of the wireless LAN in the IP multimedia subsystem is authenticated while using a home subscriber system (home agent) (abstract).

Regarding claim 3. Dynarski further discloses using an authentication server (abstract).

3. Claims 1, 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakajima (2003/0169714).

Regarding claims 1, 23, Nakajima discloses a method for authenticating a subscriber for utilizing services in a wireless LAN while using an IP multimedia subsystem of a mobile radio network (abstract, figs.1-6), comprising: receiving an IP address from the wireless LAN after which the subscriber receiving the IP address is authenticated to the IP multimedia subsystem while giving the IP address, by means of SIP registration; and informing an element of the wireless LAN of the result of the authentication of the subscriber with regard to the IP multimedia system (abstract, paragraphs 5-12, 27, 36-40).

4. Claims 1-7, 10-16, 18-19, 21, 23-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Saunders et al. (2004/0152446).

Regarding claim 1, Saunders discloses a method for authenticating a subscriber for utilizing services in a wireless LAN while using an IP multimedia subsystem of a mobile radio network (abstract, figs.1-4), comprising: receiving an IP address from the

wireless LAN (paragraph 46), after which the subscriber receiving the IP address is authenticated to the IP multimedia subsystem while giving the IP address, by means of SIP registration (paragraphs 48-49); and informing an element of the wireless LAN of the result of the authentication of the subscriber with regard to the IP multimedia system (abstract, paragraphs 46-51, figs.1-4).

Regarding claim 2. Saunders further discloses wherein the subscriber of the wireless LAN in the IP multimedia subsystem is authenticated while using a home subscriber system (#50 including address allocation and session register which is obviously to be used in a home subscriber system. Furthermore, the authentication server directly connected to access server 60 prior to connect to WAP gateway 20).

Regarding claim 3, Saunders further using an authentication server (#50 of fig.1-3).

Regarding claim 4, Saunders further discloses wherein the subscriber transmits, via the wireless LAN, an SIP register message to a device of the IP multimedia system, which transmits a request for authentication of the IP multimedia subsystem subscriber to the home subscriber system after which the home subscriber system authenticates the subscriber and communicates the result of the authentication to the wireless LAN access gateway (figs. 2-3).

Regarding claim 5, Saunders further discloses, wherein an association is implemented between the subscriber terminal and the wireless LAN transmitting and receiving via the radio interface between subscriber and wireless LAN (fig.2-4).

Regarding claim 6, Saunders further discloses wherein the subscriber terminal receives the IP address from an address area of the wireless LAN with which--together with other IP transport-based data transmits and receives SIP messages that transport authentication messages from and to the IP multimedia subsystem (figs. 2-4).

Regarding claim 7, Saunders further discloses wherein access to services is controlled via the wireless LAN access gateway (#20), which monitors successful authentication in the IP multimedia subsystem (paragraphs 6-11, 41, 46-47).

Regarding claims 10-11, 13-14, Saunders further discloses, the result of the authentication is fed to a wireless LAN access gateway by a proxy-call state control function/policy control function at a location having wireless LAN coverage and forwards the SIP messages to a corresponding entity in the IP multimedia subsystem and controls the WLAN access gateway with regard to the authentication result of the IP multimedia subsystem (paragraphs 38-42, figs. 2-4) and the data traffic is to be handled by the gateway (paragraphs 6-11)

Regarding claims 12, Saunders further discloses wherein instructions are provided to the WLAN access gateway based on a result of the authentication in the IP multimedia subsystem as to how data traffic of a subscriber is to be handled by the wireless LAN access gateway (paragraphs 6-11).

Regarding claims 15-16, Saunders further discloses wherein the result of the authentication is fed to the wireless LAN access gateway by the call state control function/policy control function in the IP multimedia subsystem and wherein the call state control function node of the IP multimedia subsystem controls the wireless LAN

access gateway with regard to the authentication result of the IP multimedia subsystem (paragraphs 6-11, 38-42, fig. 2-4).

Regarding claim 18, Saunders further discloses an authentication result is evaluated by expanded functionalities in the wireless LAN access gateway (paragraphs 7, 12).

Regarding claim 19, Saunders further discloses the WLAN access gateway converts (the gateway translates between protocols) the IP data, which allows subscriber data to pass there through (paragraph 3).

Regarding claim 21, Saunders further discloses wherein the subscriber of the wireless LAN is also a subscriber of the mobile communication network (abstract, fig.2-3).

Regarding claims 23, this claim is rejected for the same reason as set forth in claim 1.

Regarding claims 24-26, Saunders discloses wherein a second device (access server 50) constituting the proxy call state control function node is a node in the wireless LAN and wherein the second device constituting the proxy call state control function node of the IP multimedia subsystem is provided for controlling authentication in the wireless LAN (paragraphs 38-42) and wherein the wireless LAN access gateway has a third device (WAP gateway 20) that is configured such that the device converts the authentication result, which is received from the IP multimedia subsystem by allowing subscriber data to pass there through (paragraph 3, figs.2-3).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 8, 9, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saunders et al. (2004/0152446) in view of Ejzak (2003/0027595).

Regarding claims 8, 9, 17, Saunders does not specifically disclose interface coupled between the networks.

Ejzak discloses an inter-network system in which a wireless LAN is connected to the IP multimedia subsystem via a Gi interface, an Mm interface, and an interface is installed between the call state control function node of the IP multimedia subsystem and the wireless LAN access gateway for protected data transfer (paragraphs 20, 32, 36, 40-41, 46, 49, 50, 72-78, fig.1). therefore, it would have been obvious to one skilled in the art at the time the invention was made to have Saunders, modified by Ejzak to make sure each component in the IP media system functioned as expected in order to generate a good outcome.

7. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saunders et al. (2004/0152446) in view of Mao (2004/0243710).

Regarding claim 20, Saunders does not specifically disclose an application layer gateway.

Mao discloses an IP communication in which an application layer gateway is used. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have Saunders, modified by Mao in order to securely exchange the data.

8. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saunders et al. (2004/0152446) in view of Christoffel et al. (2002/0136226).

Regarding claim 20, Saunders does not specifically disclose the network can be used with aid of ETSI HiperLan and IEEE 802.11.

Mao discloses an IP communication in which the network can be used with aid of ETSI HiperLan and IEEE 802.11 (paragraph 62) in the authentication of the IP address (paragraphs 65, 94-97). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have Saunders, modified by Christoffel to securely exchange the data in order to improve the system performance.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Simon Nguyen whose telephone number is (571) 272-7894. The examiner can normally be reached on Monday-Friday from 7:00 AM to 4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban, can be reached on (571) 272-7899.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 306-0377.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

600 Dulany, Alexandria, VA 22314

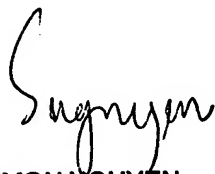
Or faxed to:

(571) 273-8300 (for formal communications intended for entry)

Hand-delivered response should be brought to Customer Service Window located at the Randolph Building, 401 Dulany, Alexandria, VA, 22314.

Simon Nguyen

January 16, 2007

A handwritten signature in black ink, appearing to read 'S. Nguyen'.

**SIMON NGUYEN
PRIMARY EXAMINER**